

IN THE CLAIMS:

Amend the claims to read as indicated below.

1. (currently amended) An ultrasound imaging system ~~10~~, comprising
a processing system ~~12~~ configured to generate ultrasound energy and to de
signals at ultrasound frequencies; and
an ultrasound scan head ~~40~~ electrically coupled to the processing system
the assembly ~~30~~ scan head including an ultrasound transducer array operatively coupled
positional actuator ~~42~~ having a driven member that rotates in a constant direction about a
axis to ~~pivot-oscillate~~ the array about a second axis substantially perpendicular to the
axis, the positional actuator further including a first pivot axis orthogonally intersecting
second axis and a second pivot axis rotating about the first axis and intersecting the first
at a constant non-orthogonal angle.
2. (currently amended) The imaging system ~~10~~ of claim 1, wherein
ultrasound scan head ~~40~~ includes a positional sensor ~~44~~ coupled to the driven member tha
configured to detect a rotational position of the driven member.
3. (currently amended) The imaging system ~~10~~ of claim 2, wherein
processing system ~~12~~ further includes a controller ~~26~~ electrically coupled to the positio
actuator ~~32~~ to transmit positioning signals to the actuator ~~32~~, and to receive positional sig
from the positional sensor ~~34~~.
4. (currently amended) The imaging system ~~10~~ of claim 1, wherein
ultrasound transducer array ~~30~~ comprises a planar arrangement of ultrasound transdu
elements.
5. (currently amended) The imaging system ~~10~~ of claim 1, wherein
ultrasound transducer array ~~30~~ comprises a linear arrangement of ultrasound transdu
elements that is curved along a length of the array.
6. (currently amended) The imaging system ~~10~~ of claim 3, furt
comprising a display coupled to the controller, the display operable to visually disp
ultrasound images generated by the processor ~~12~~.
7. (canceled)
8. (canceled)

9. (currently amended) The ultrasound ~~scan head 40~~imaging system claim 71, wherein the positional actuator 42 includes a crank member 56 coupled to a ~~drive shaft 48~~the driven member, the crank member 56 having a receiving portion angled inward towards the first ~~rotational~~ axis, and ~~the pivot member 60 includes a coupling~~, the crank member 56 being coupled to ~~the~~ a pivot member aligned with the first pivot axis 60 by connecting member 58 that is rotatably received by the ~~receiving portion~~crank member one end, and ~~hingeably received~~coupled to the pivot member by the coupling at an opposite end.

10. (currently amended) The ultrasound ~~scan head 40~~imaging system claim 9, further comprising:

a cover 70 positioned proximate to the array that at least partially defines internal volume 72 that contains the array 30, the internal volume 72 sealably containing volume of an acoustic coupling fluid.

11. (currently amended) The ultrasound imaging system~~scan head 40~~ claim 10, wherein the internal volume 72 includes an expandable bladder 76 that adjusts variations in the volume 72 of the acoustic coupling fluid.

12.-20. (canceled)